

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
May 2002

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The organization shown above represents staff and positions relevant to this report as of publication date on October 22, 2002. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of May 2002.

Statewide precipitation and runoff through May were both 80 percent of average for the 2001-2002 water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: "http://cdec.water.ca.gov/snow_rain.html".

On May 31, total storage in major SWP reservoirs was about 4.01 MAF, compared with about 3.56 MAF at this time in 2001. The average storage in the major SWP reservoirs at the end of May was about 4.49 MAF. End of month storage at Lake Oroville was about 2.65 MAF as compared to 2.12 MAF last year. The State's share of San Luis Reservoir storage was about 716 TAF, as compared with 816 TAF at this time last year. The end of month combined storage in our southern reservoirs was about 642 TAF, compared with about 631 TAF at this time last year.

Through May, SWP water deliveries for 2002 were about 1,013 TAF. This is a combination of project, transfer, and exchange waters. This was about 284 TAF more than that delivered during the same period in 2001.

Combined Delta exports for May continued at 1500 cfs, first for the Vernalis Adaptive Management Plan testing and then for additional protection for delta smelt and juvenile salmon. On May 24, the Head of Old River barrier was breached. Just before and after the breach, the flap gates on the agricultural barriers were tied open. On May 16 and 25, the Operations Control Office directed a salvage sensitivity experiment, running the Banks pumps at high levels for several hours to test the effect on smelt salvage. During these tests the Forebay intake remained at about 650 cfs. There was a notable increase in delta smelt salvage with each pumping increase, especially on the 25th. No definitive conclusions were reached. However, many agency biologists agree that it is possible that high smelt salvage after VAMP results from rearing in CCFB during VAMP and are not indicative of south delta distribution.

On May 15, DWR increased the 2002 allocation of SWP water for long-term contractors to 65 percent.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Apr 30	5002.69	23,210								
1	5002.67	23,191	-19	0	0	0	74			
2	5002.69	23,210	19	0	0	0	74			
3	5002.69	23,210	0	0	0	0	76			
4	5002.70	23,219	9	0	0	0	77			
5	5002.72	23,238	19	0	0	0	79			
6	5002.72	23,238	0	0	0	0	81			
7	5002.66	23,182	-56	0	0	0	76			
8	5002.64	23,163	-19	0	0	0	69			
9	5002.62	23,144	-19	0	0	0	66			
10	5002.60	23,125	-19	0	0	0	62			
11	5002.59	23,116	-9	0	0	0	62			
12	5002.59	23,116	0	0	0	0	59			
13	5002.58	23,106	-10	0	0	0	59			
14	5002.54	23,069	-37	0	0	0	54			
15	5002.53	23,059	-10	0	0	0	51			
16	5002.52	23,050	-9	0	0	0	48			
17	5002.51	23,041	-9	0	0	0	47			
18	5002.48	23,012	-29	0	0	0	45			
19	5002.45	22,984	-28	0	0	0	41			
20	5002.45	22,984	0	0	0	0	38			
21	5002.44	22,975	-9	0	0	0	37			
22	5002.44	22,975	0	0	0	0	37			
23	5002.43	22,965	-10	0	0	0	36			
24	5002.42	22,956	-9	0	0	0	34			
25	5002.42	22,956	0	0	0	0	34			
26	5002.39	22,928	-28	0	0	0	30			
27	5002.37	22,909	-19	0	0	0	28			
28	5002.36	22,900	-9	0	0	0	27			
29	5002.38	22,919	19	0	0	0	29			
30	5002.35	22,890	-29	0	0	0	26			
31	5002.36	22,900	10	0	0	0	26			
Total cfs-days				- - -	0	0	1,582	152	1,734	
Total ac-ft				-310	0	0	3,138	301	3,439	
1/ Values not available on a daily basis.										

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Apr 30	5572.93	34,716								
1	5572.95	34,738	22	0	9	0	0			
2	5572.97	34,762	24	0	9	0	0			
3	5572.99	34,785	23	0	9	0	0			
4	5573.01	34,809	24	0	9	0	0			
5	5573.01	34,809	0	0	9	0	0			
6	5573.02	34,821	12	0	9	0	0			
7	5573.01	34,809	-12	0	24	0	0			
8	5572.95	34,738	-71	0	35	0	0			
9	5572.91	34,691	-47	0	37	0	0			
10	5572.89	34,667	-24	0	37	0	0			
11	5572.83	34,596	-71	0	37	0	0			
12	5572.79	34,549	-47	0	37	0	0			
13	5572.72	34,467	-82	0	45	0	0			
14	5572.63	34,361	-106	0	67	0	0			
15	5572.49	34,198	-163	0	86	0	0			
16	5572.34	34,023	-175	0	92	0	0			
17	5572.17	33,825	-198	0	92	0	0			
18	5572.00	33,628	-197	0	92	0	0			
19	5571.86	33,466	-162	0	92	0	0			
20	5571.74	33,328	-138	0	72	0	0			
21	5571.65	33,225	-103	0	62	0	0			
22	5571.56	33,122	-103	0	62	0	0			
23	5571.46	33,008	-114	0	58	0	0			
24	5571.38	32,917	-91	0	55	0	0			
25	5571.29	32,814	-103	0	55	0	0			
26	5571.19	32,701	-113	0	55	0	0			
27	5571.08	32,576	-125	0	55	0	0			
28	5571.00	32,486	-90	0	55	0	0			
29	5570.90	32,373	-113	0	53	0	0			
30	5570.80	32,260	-113	0	52	0	0			
31	5570.72	32,171	-89	0	44	0	0			
Total cfs-days				- - -	0	1,505	0	0	193	
Total ac-ft				-2,545	0	2,985	0	0	382	
									3,367	
									822	

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Apr 30	5765.96	52,195									
1	5765.96	52,195	0	10	0	0	0				
2	5765.96	52,195	0	10	0	0	0				
3	5765.96	52,195	0	10	0	0	0				
4	5765.96	52,195	0	10	0	0	0				
5	5765.96	52,195	0	10	0	0	0				
6	5765.95	52,164	-31	10	0	0	0				
7	5765.93	52,102	-62	10	0	0	0				
8	5765.89	51,949	-153	10	0	0	0				
9	5765.89	51,949	0	10	0	0	0				
10	5765.89	51,949	0	10	0	0	0				
11	5765.89	51,949	0	10	0	0	0				
12	5765.89	51,949	0	10	0	0	0				
13	5765.88	51,949	0	9	1	0	0				
14	5765.88	51,949	0	7	3	0	0				
15	5765.87	51,918	-31	7	3	0	0				
16	5765.87	51,918	0	7	3	0	0				
17	5765.85	51,857	-61	8	3	0	0				
18	5765.80	51,703	-154	8	2	0	0				
19	5765.75	51,550	-153	8	2	0	0				
20	5765.75	51,550	0	8	2	0	0				
21	5765.75	51,550	0	8	2	0	0				
22	5765.74	51,520	-30	8	2	0	0				
23	5765.73	51,489	-31	8	2	0	0				
24	5765.73	51,489	0	8	2	0	0				
25	5765.73	51,489	0	8	1	0	0				
26	5765.72	51,459	-30	9	1	0	0				
27	5765.69	51,337	-122	9	1	0	0				
28	5765.68	51,337	0	9	1	0	0				
29	5765.67	51,306	-31	10	0	0	0				
30	5765.66	51,276	-30	10	0	0	0				
31	5765.65	51,245	-31	10	0	0	0				
Total cfs-days			---	279	31	0	0	510	820	341	
Total ac-ft			-950	553	61	0	0	1,011	1,626	676	

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Apr 30	838.66	2,659,095								
	1	838.23	2,653,544	-5,551	12,857	17	99	0	12,973	0
	2	837.96	2,650,062	-3,482	10,970	20	149	0	11,139	0
	3	837.54	2,644,653	-5,409	13,613	20	156	0	13,789	0
	4	837.87	2,648,903	4,250	5,930	20	78	0	6,028	0
	5	838.35	2,655,092	6,189	3,599	20	205	0	3,824	0
	6	837.99	2,650,449	-4,643	13,160	25	241	0	13,426	0
	7	837.87	2,648,902	-1,547	10,542	28	220	0	10,790	0
	8	837.59	2,645,296	-3,606	11,425	28	283	0	11,736	0
	9	837.33	2,641,951	-3,345	11,126	28	212	0	11,366	0
	10	837.18	2,640,023	-1,928	11,353	28	212	0	11,593	0
	11	837.38	2,642,594	2,571	5,143	28	184	0	5,355	35
	12	838.41	2,655,867	13,273	953	28	297	0	1,278	5,632
	13	837.93	2,649,676	-6,191	13,649	28	262	0	13,939	0
	14	837.32	2,641,823	-7,853	14,273	28	227	0	14,528	0
	15	837.06	2,638,480	-3,343	12,329	28	240	0	12,597	0
	16	836.70	2,633,858	-4,622	12,187	28	226	0	12,441	0
	17	836.28	2,628,472	-5,386	12,420	28	261	0	12,709	0
	18	836.53	2,631,677	3,205	4,854	28	225	0	5,107	39
	19	837.10	2,638,995	7,318	3,392	28	275	0	3,695	3,437
	20	836.94	2,636,939	-2,056	9,553	28	28	0	9,609	0
	21	836.85	2,635,784	-1,155	8,609	28	49	0	8,686	0
	22	836.70	2,633,858	-1,926	7,681	28	117	0	7,826	0
	23	836.61	2,632,703	-1,155	7,094	28	198	0	7,320	0
	24	836.53	2,631,677	-1,026	7,794	28	247	0	8,069	0
	25	836.59	2,632,446	769	3,796	28	275	0	4,099	0
	26	837.44	2,643,366	10,920	727	28	226	0	981	4,230
	27	837.62	2,645,683	2,317	2,949	28	205	0	3,182	0
	28	837.47	2,643,752	-1,931	7,060	28	163	0	7,251	0
	29	837.33	2,641,951	-1,801	8,895	28	184	0	9,107	0
	30	837.21	2,640,409	-1,542	10,471	28	227	0	10,726	1,274
	31	837.14	2,639,509	-900	9,207	28	311	0	9,546	1,521
Total				-19,586	267,611	822	6,282	0	274,715	16,168
										238,961

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

May 2002

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Apr 30	23,874										
1	23,653	-221	12,857	551	0	12,503	1	8	1,239	0	122
2	23,890	237	10,970	407	0	10,092	1	8	1,237	0	198
3	24,092	202	13,613	496	0	12,824	1	8	1,235	0	161
4	23,731	-361	5,930	505	0	5,607	1	8	1,239	0	59
5	23,356	-375	3,599	505	0	3,216	1	8	1,239	0	-15
6	23,787	431	13,160	514	0	12,165	1	8	1,235	0	166
7	23,305	-482	10,542	504	0	10,447	1	8	1,239	0	167
8	23,343	38	11,425	502	0	10,792	1	8	1,233	0	145
9	23,671	328	11,126	506	0	9,500	1	8	1,226	0	-569
10	23,644	-27	11,353	506	0	10,735	1	8	1,226	0	84
11	22,530	-1,114	5,143	508	23	5,608	1	8	1,222	35	86
12	23,545	1,015	953	510	7,617	917	1	8	1,230	5,632	-277
13	23,033	-512	13,649	508	0	13,473	1	8	1,233	0	46
14	22,952	-81	14,273	508	0	13,617	1	8	1,233	0	-3
15	23,883	931	12,329	375	0	10,819	1	8	1,235	0	290
16	23,469	-414	12,187	436	0	12,185	1	8	1,235	0	392
17	23,118	-351	12,420	512	0	12,140	1	8	1,231	0	97
18	22,692	-426	4,854	512	28	4,710	1	8	1,233	39	171
19	23,852	1,160	3,392	506	4,687	2,819	1	9	1,233	3,437	74
20	24,012	160	9,553	506	0	8,967	1	9	1,237	0	315
21	23,873	-139	8,609	502	0	8,187	1	9	1,237	0	184
22	23,712	-161	7,681	504	0	7,132	1	9	1,233	0	29
23	23,512	-200	7,094	506	0	6,720	1	9	1,233	0	163
24	23,741	229	7,794	510	46	7,049	2	9	1,230	0	169
25	23,914	173	3,796	505	0	3,047	2	9	1,228	0	158
26	23,415	-499	727	505	4,305	723	2	9	1,230	4,230	158
27	24,122	707	2,949	508	0	1,617	2	9	1,233	0	111
28	23,840	-282	7,060	505	0	6,746	2	9	1,232	0	142
29	23,755	-85	8,895	505	0	8,370	2	9	1,232	0	128
30	23,900	145	10,471	512	1,321	9,932	2	9	1,230	1,274	288
31	23,884	-16	9,207	508	1,568	8,555	2	9	1,241	1,521	29
Total		10	267,611	15,447	19,595	251,214	39	261	38,229	16,168	3,268

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Apr 30	128.55	27,504											
	1	32,518	5,014	12,503	3,392	60	859	1,710	1,157	0	-311	2,396	
	2	35,173	2,655	10,092	3,392	56	893	1,849	1,168	0	-79	2,405	
	3	40,183	5,010	12,824	3,392	50	881	1,936	1,158	0	-397	2,393	
	4	38,106	-2,077	5,607	3,451	42	851	2,182	1,160	0	2	2,399	
	5	33,358	-4,748	3,216	3,471	40	849	2,341	1,150	0	-113	2,389	
	6	37,389	4,031	12,165	3,511	28	821	2,380	1,155	0	-239	2,390	
	7	39,595	2,206	10,447	3,511	19	825	2,380	1,148	0	-358	2,387	
	8	42,425	2,830	10,792	3,511	32	831	2,380	1,148	0	-60	2,381	
	9	44,723	2,298	9,500	3,511	42	861	2,380	1,152	0	744	2,378	
	10	46,958	2,235	10,735	3,531	42	893	2,380	1,154	0	-500	2,380	
	11	44,607	-2,351	5,608	3,491	36	855	2,321	1,152	23	-81	2,374	
	12	30,380	-14,227	917	3,273	34	778	2,301	1,150	7,617	9	2,380	
	13	36,150	5,770	13,473	3,134	32	722	2,261	1,152	0	-402	2,385	
	14	42,652	6,502	13,617	3,035	26	702	2,182	1,154	0	-16	2,387	
	15	46,208	3,556	10,819	2,916	9	637	2,122	1,176	0	-403	2,411	
	16	50,494	4,286	12,185	2,955	4	613	1,960	2,003	0	-364	3,238	
	17	53,725	3,231	12,140	3,074	4	611	1,878	3,412	0	70	4,643	
	18	48,711	-5,014	4,710	3,154	4	613	1,797	3,749	28	-379	4,982	
	19	37,926	-10,785	2,819	3,035	3	484	1,609	3,749	4,687	-37	4,982	
	20	38,358	432	8,967	2,757	3	377	1,412	3,749	0	-237	4,986	
	21	38,720	362	8,187	2,559	3	345	1,156	3,352	0	-410	4,589	
	22	39,120	400	7,132	2,261	2	317	847	2,936	0	-369	4,169	
	23	39,631	511	6,720	2,142	2	303	710	2,559	0	-493	3,792	
	24	41,073	1,442	7,049	1,966	2	303	690	2,142	46	-458	3,372	
	25	39,266	-1,807	3,047	1,863	2	303	785	1,747	0	-154	2,975	
	26	31,260	-8,006	723	1,848	4	315	940	1,353	4,305	36	2,583	
	27	28,062	-3,198	1,617	1,932	4	385	986	1,357	0	-151	2,590	
	28	29,417	1,355	6,746	2,003	4	466	1,115	1,361	0	-442	2,593	
	29	32,052	2,635	8,370	2,261	6	507	1,295	1,349	0	-317	2,581	
	30	34,724	2,672	9,932	2,460	8	515	1,382	1,367	1,321	-207	2,597	
	31	35,277	553	8,555	2,678	6	515	1,313	1,978	1,568	56	3,219	
Total				7,773	251,214	89,470	609	19,230	52,980	55,497	19,595	-6,060	93,726

1/ Includes Bypass flows at Thermalito.

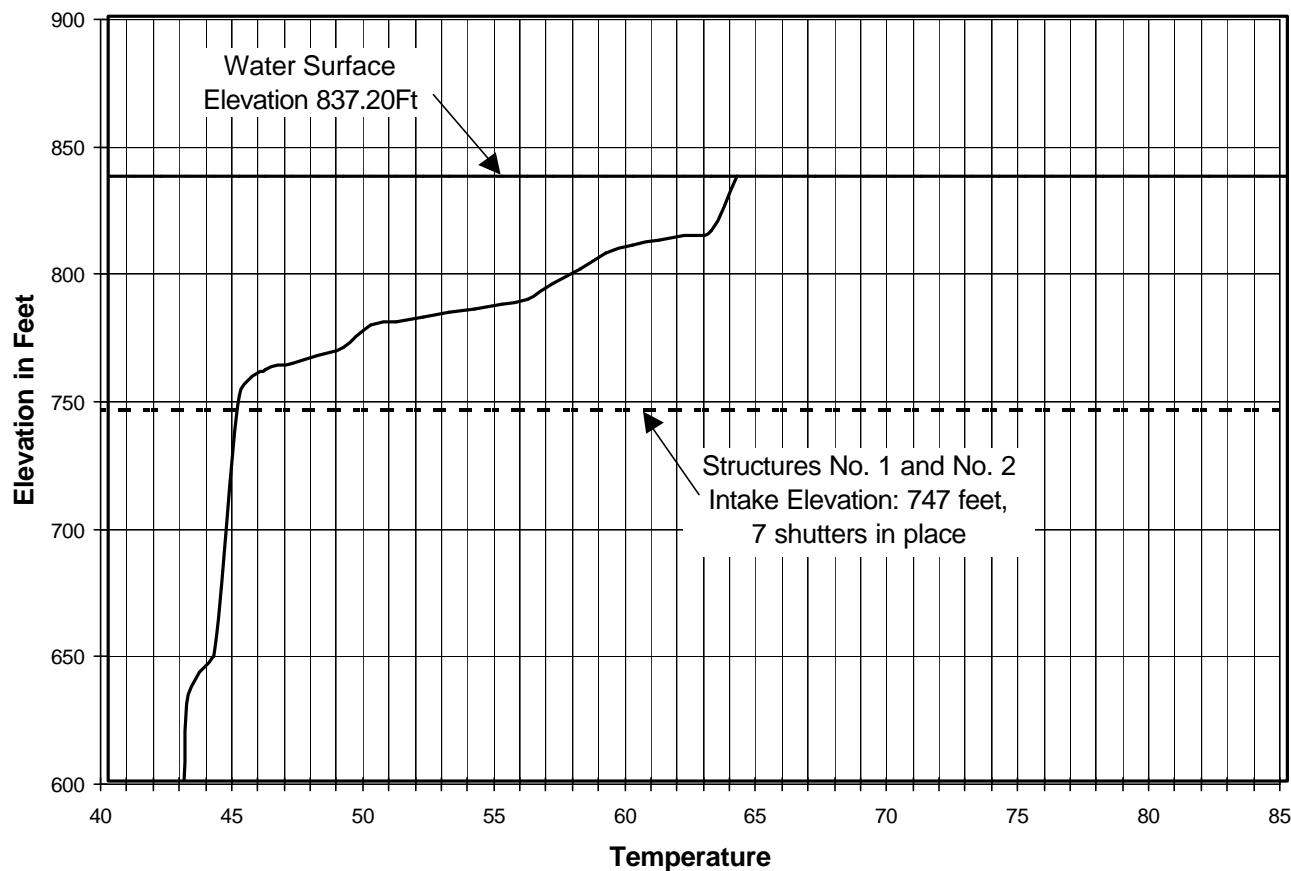
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

May 2002

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	59	51
2	57	51
3	58	51
4	58	51
5	58	51
6	59	51
7	61	51
8	62	51
9	60	51
10	60	51
11	62	52
12	63	53
13	62	53
14	64	51
15	63	52
16	62	52
17	61	52
18	59	52
19	60	53
20	59	52
21	58	52
22	60	52
23	61	52
24	61	52
25	61	52
26	61	54
27	62	54
28	65	53
29	66	53
30	68	54
31	68	53

**Lake Oroville Temperature Profile
on May 15, 2002**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement			Permit		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,105	353	444	1,835	769		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	353						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	444						
				Solano County Water Agency Fairfield / Vacaville 42"	1,835						
			17.00	Solano County Water Agency Central Solano	Stub						
		Cordelia Forebay	21.23								
2	3A	Cordelia Pumping Plant & Cordelia Spillway	21.30		2,250	769	1,191	3	66		
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	769						
				Solano County Water Agency Benicia	1,191						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	3						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
3B	2	Napa Terminal Tank	27.58	City of Napa	66	221			221		
			27.60	Napa County Flood Control & WCD American Canyon 1							

Table 9. Delta Field Division Plant Data

(in acre-feet)

May 2002

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	99	63	1,187	1,187	438	211	0	0
2	149	68	1,279	1,279	458	212	0	0
3	168	71	1,278	1,278	448	212	0	0
4	163	67	1,070	1,070	454	212	0	0
5	173	67	1,139	1,139	449	207	0	0
6	157	61	1,151	1,151	444	199	0	0
7	151	54	1,173	1,173	460	202	0	0
8	170	70	1,197	1,197	454	199	0	0
9	168	70	1,156	1,156	499	204	0	0
10	171	79	1,197	1,197	574	206	0	0
11	185	86	1,183	1,183	567	208	0	0
12	191	89	1,119	1,119	579	209	0	0
13	189	87	1,433	1,433	605	210	0	0
14	183	85	1,285	1,285	609	201	0	0
15	173	67	1,911	1,911	638	205	0	0
16	173	67	2,686	2,686	638	188	0	0
17	191	81	1,048	1,048	625	184	0	0
18	174	67	635	635	638	187	0	0
19	171	83	637	637	638	192	0	0
20	167	83	642	642	637	183	0	0
21	145	67	836	836	631	131	0	0
22	140	68	736	736	631	105	0	0
23	139	71	642	642	610	92	0	0
24	144	65	653	653	627	84	0	0
25	161	67	2,442	2,442	615	103	0	0
26	169	67	1,695	1,695	609	110	0	0
27	154	69	1,869	1,869	615	113	0	0
28	156	66	1,255	1,255	638	116	0	0
29	154	68	1,365	1,365	637	108	0	0
30	178	82	1,278	1,278	637	101	0	0
31	199	95	1,278	1,278	637	101	0	0
Total	5,105	2,250	38,455	38,455	17,739	5,195	0	0

Table 10. Clifton Court Forebay

Daily Operation of Gates

May 2002

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	10:22	11:42							1,211
2	0:31	3:01							1,227
3	0:31	2:55							1,232
4	18:05	19:55	22:55	---					1,256
5	---	2:51							1,282
6	1:36	3:21							1,285
7	1:23	3:09							1,272
8	2:37	4:30							1,288
9	6:09	8:07	20:00	21:00					1,375
10	0:50	3:15							1,368
11	1:00	4:00							1,376
12	0:01	2:45							1,369
13	0:29	2:45							1,382
14	0:49	4:20							1,370
15	1:40	4:10							1,375
16	1:00	3:45							1,387
17	11:10	17:07							1,373
18	13:30	18:00							1,387
19	13:00	18:00							1,381
20	14:25	19:30							1,374
21	6:34	12:00	15:33	17:27					1,370
22	6:40	13:30							1,382
23	6:30	10:30	14:10	18:31					1,387
24	6:01	11:30	15:00	18:00					1,388
25	7:40	12:00	16:10	18:30					1,363
26	9:00	13:00							1,401
27	8:00	12:40							1,382
28	9:00	12:17							1,385
29	9:30	15:35							1,310
30	10:44	13:45							1,373
31	11:10	14:00							1,368
Total inflow for the month in AF:									41,679

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	USBR	Local	Loan Water	Carryover Ent.		
	No.	Structure	Mile									
1	Banks Pumping Plant	3.32			38,455							
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir inlet	17,739	48 1/ 92 355 294 315	68					
		Check No. 1	5.95									
	2	Check No. 2	12.01									
	3		12.47	Musco Olive	68							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2B	8		42.46	Oak Flat Water District-A	48							
			42.9	Western Hills WD	92							
			43.81	Oak Flat Water District-B	355							
			44.64	Oak Flat Water District-C	294							
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	315							
				Oak Flat Totals:	1,012	1,012	0	0	0	0		
		Check No. 9	51.3									
	10	Check No. 10	56.86									
	11	Check No. 11	61.4									
	12		66.14	Veteran's Cemetery	6	6						
		Check No. 12	66.71		18,429							

1/ Kern County Water Agency entitlement water transferred to Western Hills Water District

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement	General Wheeling	Local	Recreation		
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	17,739	3					
			3.17		0						
			3.18		3						
		Check No. 1	3.91								
2	3		5.21	Zone 7 Altamont		1,031					
		Check No. 3	9.49		Zone 7 Patterson Stored Exchange						
					Zone 7 Patterson Project Water						
4	4	Check No. 4	10.68			10	1,571				
		Check No. 5	12.29								
	6		13.55		Zone 7 Wente #1						
			14.16		Zone 7 Wente #2						
			14.31		Ising Project Water						
		Check No. 6	14.65								
	7		14.78		Zone 7 Arroyo Mocho						
		Check No. 7	16.38								
	8		16.57		Zone 7 Wente #3		28	88	13		
			16.69		Zone 7 Norman Nursery						
			16.70		Zone 7 Concannon Project Water						
		Del Valle Branch Pipeline Junction	18.63		(Pumped into Lake Del Valle)	5,195					
					(Flow into South Bay Aqueduct)	0					
				Deliveries through Del Valle Branch Pipeline	Arroyo Valle #1 & #2 Project Water	368					
					Arroyo Valle #1 & #2 Inflow Released	88					
					Lake Del Valle Recreation	13					
					Zone 7 Wente #5	62					
					So. Livermore Project	1,871	1,871	56			
6	19.20				So. Livermore Inflow Released	0					
					So. Livermore Stored Exchanged	0					
					Zone 7 - Kalthrof Detjens	56					
7	22.50	La Costa Tunnel		ACWD Vallecitos Project Water		0	2,243	5,130			
					City of San Francisco San Antonio	0					
8	28.97	Mission Tunnel		ACWD - Bayside 1 & 2 Project Water:		2,243	2,243	5,130			
				Inflow Released		0					
				Stored Exchange:		0					
9	35.86	Santa Clara Pipeline		S.C.V.W.D. Meter		5,130					

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

May 2002

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valley	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Apr 30	695.50	34,824									
1	695.57	34,872	48	-158	211	0	0	0	5	5	0.03
2	695.90	35,082	210	4	212	0	0	0	6	6	0.00
3	696.22	35,292	210	8	212	0	0	0	10	10	0.00
4	696.53	35,501	209	3	212	0	0	0	6	6	0.00
5	696.84	35,705	204	7	207	0	0	0	10	10	0.00
6	697.14	35,902	197	9	199	0	0	0	11	11	0.00
7	697.44	36,102	200	8	202	0	0	0	10	10	0.00
8	697.74	36,299	197	7	199	0	0	0	9	9	0.00
9	698.04	36,501	202	9	204	0	0	0	11	11	0.00
10	698.35	36,705	204	9	206	0	0	0	11	11	0.00
11	698.65	36,910	205	8	208	0	0	0	11	11	0.00
12	698.96	37,116	206	8	209	0	0	0	11	11	0.00
13	699.26	37,322	206	9	210	0	0	0	13	13	0.00
14	699.55	37,521	199	7	201	0	0	0	9	9	0.00
15	699.85	37,724	203	8	205	0	0	0	10	10	0.00
16	700.12	37,910	186	8	188	0	0	0	10	10	0.00
17	700.39	38,092	182	10	184	0	0	0	12	12	0.00
18	700.66	38,277	185	7	187	0	0	0	9	9	0.00
19	701.93	38,467	190	9	192	0	0	1	10	11	0.00
20	701.19	38,648	181	0	183	0	0	1	1	2	0.30
21	701.38	38,778	130	3	131	0	0	1	3	4	0.27
22	701.53	38,882	104	4	105	0	0	1	4	5	0.00
23	701.66	38,973	91	9	92	0	0	1	9	10	0.00
24	701.78	39,056	83	11	84	0	0	1	11	12	0.00
25	701.93	39,158	102	13	103	0	0	1	13	14	0.00
26	702.08	39,267	109	11	110	0	0	1	11	12	0.00
27	702.24	39,379	112	10	113	0	0	1	10	11	0.00
28	702.40	39,494	115	11	116	0	0	1	11	12	0.00
29	702.55	39,601	107	10	108	0	0	1	10	11	0.00
30	702.70	39,701	100	11	101	0	0	1	11	12	0.00
31	702.84	39,801	100	15	101	0	0	1	15	16	0.00
Total				4,977	88	5,195	0	0	13	293	306
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											
2/ To East Bay Regional Park District.											
NR=No Records											

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

May 2002

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generated)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Apr 30	222.78	50,459											
1	221.09	45,996	-4,463	0	0	2,477	393	1,014	0	3,875	22	-209	
2	220.90	45,498	-498	0	0	5,261	497	968	0	4,729	22	-290	
3	220.20	43,671	-1,827	0	0	5,113	204	938	0	5,263	23	-14	
4	220.80	45,237	1,566	0	0	6,093	220	996	0	4,384	22	-121	
5	219.48	41,810	-3,427	0	0	4,398	422	977	0	5,543	21	-7	
6	219.60	42,119	309	0	0	5,731	227	936	0	4,412	22	-432	
7	220.14	43,515	1,396	0	0	6,551	386	940	0	5,035	23	-235	
8	221.87	48,045	4,530	0	0	6,933	191	902	0	3,857	21	-60	
9	221.25	46,416	-1,629	0	0	4,642	394	924	0	4,697	22	-214	
10	220.47	44,374	-2,042	0	0	5,664	349	1,141	0	5,670	23	-208	
11	220.30	43,931	-443	0	0	6,227	105	1,282	0	5,230	23	-20	
12	219.10	40,839	-3,092	0	0	6,144	369	1,413	0	6,590	21	-48	
13	220.58	44,661	3,822	0	0	7,802	418	1,421	0	4,753	22	-97	
14	220.56	44,609	-52	0	0	7,173	70	1,786	0	5,414	23	-46	
15	220.69	44,949	340	0	0	7,716	513	1,954	0	5,670	22	-412	
16	220.96	45,656	707	0	0	7,362	1,244	2,110	0	5,959	23	-158	
17	221.50	47,073	1,417	0	0	8,868	278	2,127	0	6,094	23	-188	
18	221.41	46,836	-237	0	0	8,520	70	2,140	0	6,201	21	-347	
19	219.79	42,609	-4,227	0	0	6,582	37	2,113	0	6,595	23	-19	
20	220.96	45,656	3,047	0	0	8,580	0	1,898	0	5,211	21	86	
21	221.38	46,758	1,102	0	0	7,484	0	1,768	0	4,973	22	-165	
22	221.40	46,810	52	0	0	7,456	0	1,726	0	5,537	21	-146	
23	221.43	46,889	79	0	0	7,427	0	1,681	0	5,387	23	-296	
24	221.11	46,049	-840	0	0	7,412	0	1,526	0	5,411	22	-876	
25	220.78	45,184	-865	0	0	6,067	641	1,323	0	6,370	22	571	
26	220.04	43,256	-1,928	0	0	7,231	313	1,380	0	6,832	22	-282	
27	219.42	41,656	-1,600	0	0	6,926	571	1,397	0	6,512	22	-373	
28	219.52	41,913	257	0	0	8,132	294	1,605	0	6,473	21	-197	
29	220.43	44,270	2,357	0	0	9,765	299	1,899	0	6,670	22	-285	
30	220.78	45,184	914	0	0	9,986	438	2,018	0	7,937	21	13	
31	219.90	42,893	-2,291	0	0	9,672	349	2,215	0	8,541	22	-398	
Total				-7,566	0	0	215,395	9,292	46,518	0	175,825	683	-5,475
Mean cfs				- - -	0	0	6,948	300	1,501	0	5,672	22	-177
Acre-feet				-7,566	0	0	427,232	18,429	92,264	0	348,748	1,354	-10,861

1/ Pump-in located at Mile 79.67R.

2/ Includes 51 AF delivered to DFG at O'Neill Forebay and 17 AF to Parks and Recreation, and 1,286 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

May 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Apr 30	528.31	1,844,188						
1	527.85	1,838,535	-5,653	0	2,477	310	1	-62
2	526.96	1,827,616	-10,919	0	5,261	302	0	58
3	526.04	1,816,352	-11,264	0	5,113	297	0	-269
4	525.01	1,803,770	-12,582	0	6,093	303	0	53
5	524.27	1,794,750	-9,020	0	4,398	307	0	157
6	523.27	1,782,585	-12,165	0	5,731	299	0	-103
7	522.17	1,769,236	-13,349	0	6,551	313	0	134
8	521.00	1,755,076	-14,160	0	6,933	315	0	109
9	520.18	1,745,175	-9,901	0	4,642	323	0	-27
10	519.19	1,733,248	-11,927	0	5,664	299	0	-50
11	518.14	1,720,628	-12,620	0	6,227	289	0	154
12	517.07	1,707,801	-12,827	0	6,144	286	0	-37
13	515.75	1,692,023	-15,778	0	7,802	273	0	120
14	514.50	1,677,128	-14,895	0	7,173	282	0	-54
15	513.18	1,661,448	-15,680	0	7,716	282	0	93
16	511.92	1,646,527	-14,921	0	7,362	278	0	117
17	510.40	1,628,590	-17,937	0	8,868	259	0	84
18	508.93	1,611,307	-17,283	0	8,520	274	0	81
19	507.75	1,597,480	-13,827	0	6,582	281	0	-108
20	506.28	1,580,311	-17,169	0	8,580	251	0	175
21	504.67	1,561,580	-18,731	0	7,484	228	0	-1,731
22	503.39	1,546,742	-14,838	0	7,456	196	0	171
23	502.10	1,531,838	-14,904	0	7,427	190	0	103
24	500.82	1,517,098	-14,740	0	7,412	200	0	181
25	499.73	1,504,584	-12,514	0	6,067	213	0	-29
26	498.46	1,490,049	-14,535	0	7,231	224	0	127
27	497.19	1,475,561	-14,488	0	6,926	210	0	-168
28	495.96	1,461,575	-13,986	0	8,132	219	0	1,300
29	494.24	1,442,094	-19,481	0	9,765	233	0	176
30	492.48	1,422,252	-19,842	0	9,986	256	0	238
31	490.76	1,402,950	-19,302	0	9,672	215	0	156
Total			-441,238	0	215,395	8,207	1	1,149
Mean cfs			---	0	6,948	265	0	37
Acre-feet			-441,238	0	427,232	16,276	1	2,271

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 13,875 AF, San Benito: 2,401 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

May 2002

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project	
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	7,686	4,506	4,913	2,382	0	0	614
2	9,379	6,137	10,435	4,283	0	0	599
3	10,439	7,253	10,141	3,066	0	0	589
4	8,696	5,484	12,085	5,948	0	0	601
5	10,995	7,821	8,724	8,724	0	0	608
6	8,751	5,525	11,367	4,264	0	0	594
7	9,987	6,824	12,994	7,250	0	0	620
8	7,650	4,423	13,751	7,975	0	0	625
9	9,317	6,422	9,207	3,491	0	0	641
10	11,246	8,469	11,234	6,448	0	0	593
11	10,374	7,523	12,351	6,119	0	0	573
12	13,072	10,262	12,186	10,979	0	0	567
13	9,427	6,595	15,475	5,093	0	0	541
14	10,738	7,928	14,227	6,877	0	0	559
15	11,246	8,416	15,304	9,133	0	0	560
16	11,819	8,387	14,603	7,282	0	0	552
17	12,088	8,638	17,590	9,747	0	0	514
18	12,300	8,891	16,900	8,959	0	0	544
19	13,081	9,707	13,055	6,081	0	0	557
20	10,336	6,947	17,019	9,806	0	0	498
21	9,864	6,422	14,845	7,503	0	0	453
22	10,982	7,593	14,789	7,747	0	0	389
23	10,685	7,347	14,732	7,661	0	0	376
24	10,732	7,370	14,701	6,501	0	0	396
25	12,635	9,258	12,033	4,961	0	0	422
26	13,552	10,273	14,343	9,346	0	0	444
27	12,917	9,650	13,737	8,728	0	0	416
28	12,839	9,542	16,129	7,798	0	0	435
29	13,230	9,907	19,369	12,774	0	0	463
30	15,743	12,349	19,808	12,570	0	0	507
31	16,942	12,673	19,185	10,577	0	0	426
Total	348,748	248,542	427,232	230,073	0	0	16,276

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

May 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Apr 30	327.70	20,529					
1	327.70	20,529	0	0	0	0	0
2	327.70	20,529	0	0	0	0	0
3	327.69	20,524	-5	0	0	0	-5
4	327.69	20,524	0	0	0	0	0
5	327.68	20,519	-5	0	0	0	-5
6	327.64	20,501	-18	0	0	0	-18
7	327.62	20,491	-10	0	0	0	-10
8	327.61	20,486	-5	0	0	0	-5
9	327.58	20,472	-14	0	0	0	-14
10	327.56	20,463	-9	0	0	0	-9
11	327.54	20,454	-9	0	0	0	-9
12	327.54	20,454	0	0	0	0	0
13	327.52	20,444	-10	0	0	0	-10
14	327.51	20,440	-4	0	0	0	-4
15	327.50	20,435	-5	0	0	0	-5
16	327.46	20,416	-19	0	0	0	-19
17	327.45	20,412	-4	0	0	0	-4
18	327.41	20,393	-19	0	0	0	-19
19	327.39	20,384	-9	0	0	0	-9
20	327.37	20,374	-10	0	0	0	-10
21	327.37	20,374	0	0	0	0	0
22	327.36	20,370	-4	0	0	0	-4
23	327.35	20,365	-5	0	0	0	-5
24	327.34	20,360	-5	0	0	0	-5
25	327.32	20,351	-9	0	0	0	-9
26	327.29	20,337	-14	0	0	0	-14
27	327.27	20,328	-9	0	0	0	-9
28	327.27	20,328	0	0	0	0	0
29	327.27	20,328	0	0	0	0	0
30	327.26	20,323	-5	0	0	0	-5
31	327.23	20,309	-14	0	0	0	-14
Total			-220	0	0	0	-220
Mean cfs			---	0	0	0	---
Acre-feet			-220	0	0	0	-220

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

May 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Apr 30	602.60	826					
1	Not Observed			2	0	2	
2	Not Observed			2	0	2	
3	602.45	818	-8		0	2	
4	Not Observed			2	0	2	
5	Not Observed			2	0	2	
6	Not Observed			2	0	2	
7	Not Observed			2	0	2	
8	Not Observed			2	0	2	
9	Not Observed			2	0	2	
10	Not Observed			2	0	2	
11	Not Observed			2	0	2	
12	Not Observed			2	0	2	
13	Not Observed			2	0	2	
14	Not Observed			2	0	2	
15	Not Observed			2	0	2	
16	Not Observed			2	0	2	
17	602.30	809	-9	0	0	1	
18	Not Observed			1	0	1	
19	Not Observed			1	0	1	
20	Not Observed			1	0	1	
21	Not Observed			1	0	1	
22	Not Observed			1	0	1	
23	Not Observed			1	0	1	
24	602.20	803	-6	0	0	1	
25	Not Observed			1	0	1	
26	Not Observed			1	0	1	
27	Not Observed			1	0	1	
28	Not Observed			1	0	1	
29	Not Observed			1	0	1	
30	Not Observed			1	0	1	
31	602.40	815	12	7	0	1	
Total			-11	49	0	47	---
Mean cfs			---	2	0	2	---
Acre-feet			-11	97	0	92	-16

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		18,429						
3A		San Luis Reservoir			Department of Parks and Recreation	1	13,875	1			
					San Felipe Division Santa Clara Water District	13,875					
					San Felipe Division San Benito Water District	2,401					
					Department of Parks and Recreation	17					
3	13	O'Neill Forebay	70.85		Cattle Program			9	8		
					Department of Fish & Game	51		0	0		
					Thru	San Luis Water District					
			70.91		85.08	(Floodwater Inflow)	1,286	28	23		
						Reach 3 Subtotal:	0				
			86.73		Check No. 13		1,354	1,286	0		
					Dos Amigos Pumping Plant		348,748	37	31		
4	14		89.03		Thru	San Luis Water District	6,436	6,436			
					94.06						
					89.66	Pacheco Water District	2,005				
					89.67						
			89.68		Panoche Water District	21	21				
			89.70		City of Dos Palos	149	149				
4	15		95.06								
			98.15		Thru	San Luis Water District	716	716			
					104.20						
					96.15	Panoche Water District	5,137				
					102.64	(Floodwater Inflow)	0	2			
					102.64	Broadview Water District	2				
			105.22		Thru	Westlands Water District	14,119	14,119			
					108.64						
			Check No.15		108.50						
					San Felipe Division Total:	16,276	16,276	0	0		
					Pacheco Water District Total:	2,005	2,005	0	0		
					Broadview Water District Total:	2	2	0	0		
					City of Dos Palos Total:	149	149	0	0		
					SLWD Reach 4 Subtotal:	7,152	7,152	0	0		
					Panoche Water District Total:	5,158	5,158	0	0		
					SLWD Total:	8,438	8,438	0	0		
					Westlands WD Reach 4 Subtotal:	14,119	14,119	0	0		

Table 19b. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
		Beginning and Ending				USBR	Transfer 1/	DWR Recreation	USBR Recreation				
	No.	Structure	Mile										
5	16		110.52	(Reverse flow, Kings River)	0	14,056	14,056	1					
			Thru	Westlands Water District	14,056								
			122.05	Department of Fish and Game	1								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	14,620	14,620		1					
			Thru										
		Check No. 17	132.74										
	18		133.81	Westlands Water District	16,697	16,697		1					
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	10,564	10,564		1					
			143.16	City of Coalinga	434		434						
		Check No. 18	143.23										
				Westlands WD Reach 5 Subtotal:	55,937	55,937	0	0	0				
6	19		145.26	Westlands Water District	19,117	19,117		1					
			Thru										
			151.19										
		Check No. 19	155.64										
				Westlands WD Reach 6 Subtotal:	19,117	19,117	0	0	0				
7	20		156.34	City of Huron	109	109	5,250	1					
			156.40	Westlands Water District	9,560								
			Thru										
			163.69										
		Check No. 20	164.69										
	21		164.79	City of Avenal	256	256	5,025	1					
			167.04	Westlands Water District	5,025								
			Thru										
			171.67										
		Check No. 21	172.40										
				Reach 7 Total:	14,950	9,700	5,250	0	0				
				Westlands WD Total:	103,758	98,508	5,250	0	0				
				City of Coalinga Total:	434	434	0	0	0				
				City of Huron Total:	109	109	0	0	0				
				City of Avenal Total:	256	256	0	0	0				
				Phase I Water Total:	0	0	0	0	0				
Total San Luis Field Division Deliveries:					136,655	131,335	5,250	39	31				

1/ Water transferred from Tulare Lake Basin WSD.

**Table 20. Consolidated State-Federal San Luis Canal 1/
Daily Operations
May 2002**

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Apr 30	29,405								
1	28,661	-744	0	3,875	152	84	1,701	3,010	697
2	28,384	-277	0	4,729	147	85	1,698	3,500	561
3	29,151	767	0	5,263	149	86	1,728	3,511	598
4	28,876	-275	0	4,384	158	82	1,653	3,132	503
5	28,953	77	0	5,543	193	84	1,719	4,208	700
6	28,788	-165	0	4,412	167	82	1,699	3,043	495
7	28,741	-47	0	5,035	195	81	1,723	3,418	358
8	29,098	357	0	3,857	164	84	1,701	1,948	220
9	27,757	-1,341	0	4,697	172	83	1,728	3,703	313
10	28,138	381	0	5,670	136	86	1,734	3,713	191
11	27,810	-328	0	5,230	179	83	1,701	3,623	191
12	28,334	524	0	6,590	139	81	1,632	4,697	223
13	28,874	540	0	4,753	140	85	1,746	2,767	257
14	28,756	-118	0	5,414	122	82	1,701	3,630	61
15	28,698	-58	0	5,670	123	86	1,688	3,712	-91
16	28,586	-112	0	5,959	129	81	1,742	4,051	-12
17	29,252	666	0	6,094	108	82	1,700	3,705	-163
18	28,477	-775	0	6,201	141	82	1,701	4,739	71
19	28,518	41	0	6,595	187	85	1,691	5,013	402
20	29,104	586	0	5,211	164	85	1,759	3,347	440
21	28,146	-958	0	4,973	149	83	1,693	3,821	290
22	28,497	351	0	5,537	149	84	1,701	3,658	232
23	28,779	282	0	5,387	164	81	1,598	3,497	96
24	28,169	-610	0	5,411	165	87	1,700	3,793	27
25	27,839	-330	0	6,370	161	86	1,675	4,501	-114
26	28,222	383	0	6,832	162	83	1,685	4,811	102
27	28,626	404	0	6,512	162	87	1,675	4,397	12
28	28,697	71	0	6,473	123	89	1,679	4,136	-410
29	28,121	-576	0	6,670	132	84	1,733	4,417	-594
30	28,050	-71	0	7,937	129	82	1,667	5,282	-813
31	28,010	-40	0	8,541	131	85	1,764	5,729	-852
Total		-1,395	0	175,825	4,692	2,600	52,715	120,512	3,990
Mean cfs		---	0	5,672	151	84	1,700	3,887	129
Acre-feet		-1,395	0	348,748	9,306	5,158	104,560	239,035	7,916

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water and Flood Water is included in the gain or loss.

3/ Includes 2,003 AF AG & 2 AF M&I to Pacheco W.D. and 149 AF to the City of Dos Palos.

4/ Includes 109 AF to the City of Huron, 256 AF to the City of Avenal, 434 AF to the City of Coalinga, 0 AF Phase I Water @ Lat. 13R, 2 AF to Broadview W.D., and 1 AF to F&G @ WWD Lateral 4L.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

May 2002

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	213	213	108	102	107	5,355	5,050	5,072	4,926
2	243	243	107	103	106	5,533	5,419	5,213	5,025
3	234	234	111	105	110	5,286	5,439	5,259	5,154
4	225	225	129	123	124	5,604	5,623	5,375	5,237
5	157	157	109	105	109	6,723	6,722	6,556	6,446
6	250	250	127	122	123	5,913	5,964	5,788	5,509
7	303	303	114	109	111	5,919	5,421	5,526	5,423
8	330	330	131	129	129	2,907	2,626	2,394	2,272
9	365	365	127	123	124	6,119	6,045	5,656	5,584
10	285	285	116	112	109	6,099	6,054	5,692	5,584
11	376	376	138	134	132	6,050	5,951	5,690	5,643
12	340	340	125	121	123	7,722	7,708	7,427	7,248
13	267	267	110	104	109	4,984	5,149	4,896	4,708
14	319	319	116	113	113	6,064	5,719	5,318	5,208
15	326	326	114	110	114	5,873	5,780	5,300	5,205
16	458	458	150	148	146	6,148	5,935	5,510	5,447
17	358	358	134	128	131	6,166	6,165	5,641	5,589
18	640	640	110	105	107	6,913	6,574	6,135	6,151
19	540	540	129	120	121	7,962	8,231	7,376	7,735
20	406	406	96	94	97	5,497	5,313	3,658	4,802
21	464	464	150	147	145	5,578	5,222	4,932	4,805
22	410	410	125	123	123	5,464	5,426	5,001	4,808
23	439	439	117	115	114	5,147	5,048	4,675	4,587
24	434	434	128	127	126	5,705	5,310	4,879	4,808
25	493	493	126	124	127	6,852	6,973	6,934	6,475
26	487	487	154	157	154	7,139	7,203	6,917	6,878
27	378	378	99	92	102	6,918	6,975	6,428	6,496
28	444	444	96	95	101	5,915	5,656	5,743	5,068
29	414	414	124	121	120	5,975	5,627	5,225	5,068
30	419	419	127	123	124	6,773	6,470	6,047	5,914
31	466	466	87	81	88	6,657	6,211	5,772	5,721
Total	11,483	11,483	3,734	3,615	3,669	186,960	183,009	172,035	169,524

Table 22a. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	USBR	Purchase Pool A	Purchase Pool B	Dry Year Purchase 2001	Recovery of Pump In		
	No.	Structure	Mile										
7	21	Check No. 21	172.40		239,035								
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	29	29 400 4,152 127 2,428 1,273		409	44 151 132 441	3,580			
				County of Kings TL - A	400								
				TLBWSD TL-A	4,152								
				175.18 DRWD - 1	453								
8D				177.54 DRWD - 1B	151			132	441	3,580			
				180.64 TLBWSD - C	0								
31A				180.65 DRWD - 1A	132								
8D				182.99 DRWD - 2	4,148			0	409	768	3,580	0	
				183.00 Tulare Lake Basin WSD TL - B	2,428								
				184.63 Coastal Branch	11,483								
				184.78 Dudley Ridge Water Dist. DRWD - 3	1,273								
9	23			Dudley Ridge Reach 8D Total:	6,157			0	409	768	3,580	0	
				Tulare Lake Basin WSD Total:	6,580								
				Check No. 22	184.82								
				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	4,886			0	409	768	3,580	0	
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	918								
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	19								
10A	24			196.40 Kern County Water Agency Berrenda Mesa - 2	0			0	409	768	3,580	0	
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	434								
				K.C.W.A. Reach 9 Subtotal:	6,257			0	409	768	3,580	0	
				Check No. 23	197.05								
				201.24 Kern County Water Agency Lost Hills Water Dist. - 7	643			0	409	768	3,580	0	
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	221								
10A	25			204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0			0	409	768	3,580	0	
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	0								
				Check No. 24	207.94								
				209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	1,408			0	409	768	3,580	0	
				209.78 Kern National Wildlife Refuge USBR BV-1B	89								
				Kern County Water Agency Buena Vista WSD 1B	6								
10A				209.80 KCWA Semitropic WSD	205			0	409	768	3,580	0	
				KCWA Semitropic WSD Penstocks	11,338								
				USBR Total:	89								
				K.C.W.A. Reach 10A Subtotal:	13,821	7,821	0	0	0	0	0	6,000	

Table 22b. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Federal Wheeling 2/	Purchase Pool A	Purchase Pool B	Recovery of Pump In		
	No.	Structure	Mile									
11B	25	210.75	Kern County Water Agency Belridge - 2	0	233	233	5,056	129	4,000	4,000		
		214.11	Kern County Water Agency Belridge - 3	233								
		216.62	Kern County Water Agency Belridge - 4	0								
		217.13	Kern County Water Agency Belridge - 5	9,056								
			Kern County Water Agency Belridge - 5D	129								
		Check No. 25	217.79									
			K.C.W.A. Reach 11B Subtotal:	9,418	5,418	0	0	0	0	4,000		
12D	26	219.58	Kern County Water Agency Belridge - 6	0	20	20	934	934	934	934		
			Kern County Water Agency West Kern - 3	20								
		Check No. 26	224.92									
		27	230.37	Kern County Water Agency Buena Vista - 6	0							
12E			Check No. 27	231.73								
28	235.75	Kern County Water Agency Buena Vista - 2	0	934	934	934	934	934	934			
		Kern County WA CVC	934									
	238.04	DRWD CVC	0									
		Tulare Co.	0									
		Lower Tule River	0									
		Fresno Co.	0									
		Pixley ID	0									
		Hacienda DWR Wells	0									
	Check No. 28	238.11										
		1/ Arvin Edison Total:	0	0	0	0	0	0	0			
		Reach 12E Subtotal:	934	934	0	0	0	0	0			
13B	29	238.19	Kern Water Bank Inflow	0	601	601	601	601	601	601		
			Kern Water Bank Outflow	0								
		241.02	Kern River Intertie (inflow)	0								
		242.85	KCWA Buena Vista WSD - 7	0								
		243.09	KCWA Buena Vista WSD - 5	0								
			Kern County Water Agency Buena Vista - 3	601								
		Check No. 29	244.54	Buena Vista WSD	0							
	30	249.85	Kern County Water Agency Buena Vista - 4	0								
			Buena Vista Pumping Plant	186,960								
			K.C.W.A. Reach 13B Subtotal:	601	601	0	0	0	0	0		
14A	31	254.47	Kern County Water Agency West Kern - 2	0	154	154	154	154	154	154		
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	154								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Wheeling Federal Water for Friant Water Users Authority as per letter dated July 28, 1999.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitle-ment	Inter-ruptible Ent.	MWD Ent. Exchange	Ex-change	Recovery of Pump In		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14	Kern County Water Agency Wheeler Ridge-Maricopa - 3	274	274						
	32		258.61		274							
			260.44		922							
			Check No. 32	261.72								
				KCWA Reach 14A Subtotal:	1,350		1,350	0	0	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	2,799	1,250 674 1,249				1,549 1,000		
			266.91		674							
			Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	2,249							
			Check No. 34	271.27								
				Reach 14B Total:	5,722		3,173	0	0	2,549		
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	2,052	2,052 1,506 3,558						
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,506							
				Reach 14C Total:	3,558		0	0	0	0		
	Teerink Pumping Plant		278.13		183,009							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	541	541 5,829						
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	5,829							
				Reach 15-A Total:	6,370		6,370	0	0	0		
	Chrisman Pumping Plant		280.36		172,035							
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	19 93 149 953 247 888						
			Check No. 37	283.95								
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	19							
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	93							
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
			Check No. 38	287.09								
			287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	149							
	39		Check No. 39	290.21								
			291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	953							
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	247							
				Kern County Water Agency Tehachapi Cummings CWD	888							
				K.C.W.A. Reach 16A Subtotal:	2,349		2,349	0	0	0		
17E	Edmonston Pumping Plant		293.45		169,524							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitle-ment	Purchase Pool A	MWD Ent.	Exchange	Recovery of Pump In			
	No.	Structure	Mile										
31A	C-1	Coastal Branch Control	0.02		11,483								
		Las Perillas Pumping Plant	1.16		11,483								
	C-2		3.79	Green Valley Water District	0								
		Badger Hill Pumping Plant	4.27		11,483								
	C-3	Coastal Check No. 3	7.21										
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0								
		Coastal Check No. 4	9.34										
	C-5	Coastal Check No. 5	12.20										
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	6,947		6,947						
			14.83	Kern County Water Agency Berrenda Mesa - DD	0								
				Kern County Water Agency Berrenda Mesa - 1	880								
		Devil's Den Pumping Plant	14.86		3,734								
				K.C.W.A. Reach 31A Subtotal:	7,827	7,827	0	0	0	0			
				K.C.W.A. Total:	58,207	45,658	0	0	0	12,549			
33A	C-7	Bluestone Pumping Plant	19.05		3,615		2,887	324					
	C-8	Polonio Pass Pumping Plant	26.54		3,669								
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant									
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	3,211								
		Tank Site 2	58.63	Central Coast:	0								
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	399		399						
		Energy Dissipater	78.12										
	Lopez T.O.	85.86		SLOCFC & WCD	0								
35	C-12			CCWA Total:	3,286		3,286	0	0	0			
		Guadalupe T.O.	102.70	SBCFC & WCD	0								
		Santa Maria T.O.	107.43	SBCFC & WCD	0								
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0								
38				SBCFC & WCD Total:	0		0	0	0	0			
		Tank Site 5	115.42										

Table 24. Southern Field Division Plant Data

(in acre-feet)

May 2002

Date	West Branch					East Branch								Devil Canyon Powerplant Generation
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant				
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume		
28	1	2,948	3,158	0	6,093	2,128	1,858	0	113	1,642	1,824	0	0	2,173
	2	2,974	3,123	0	7,332	0	2,117	0	0	1,897	1,755	0	0	2,280
	3	3,358	3,115	0	4,677	407	1,857	0	0	1,976	1,842	0	0	2,225
	4	3,144	2,903	0	168	1,322	2,114	0	0	1,555	1,584	0	0	2,148
	5	3,838	3,084	0	480	2,417	2,630	0	0	2,509	2,510	0	0	1,954
	6	3,120	3,224	0	7,302	1,839	2,375	0	0	1,902	1,852	0	0	2,134
	7	3,253	3,290	0	6,592	1,052	2,155	0	37	2,103	2,367	0	0	2,118
	8	1,175	2,226	0	7,114	3,135	1,115	0	0	1,107	928	0	0	2,120
	9	2,985	3,164	0	8,379	2,867	2,550	0	42	2,196	2,112	0	0	2,325
	10	3,145	3,194	0	7,180	2,743	2,343	0	57	2,196	2,109	0	0	2,320
	11	3,198	3,291	0	3,510	3,927	2,362	0	62	2,174	2,108	0	0	2,126
	12	2,556	2,772	0	561	3,998	3,710	0	927	3,756	3,469	0	0	2,374
	13	2,654	2,493	0	7,891	3,368	2,042	0	66	2,426	2,624	0	0	2,335
	14	2,878	3,201	0	7,127	3,337	2,340	0	0	2,187	2,484	0	0	2,377
	15	2,835	3,082	0	6,069	2,996	2,412	0	0	1,947	1,904	0	0	2,314
	16	2,719	3,098	0	10,391	2,028	2,715	0	0	2,540	2,395	0	0	2,597
	17	2,710	2,996	0	7,964	2,133	2,845	0	24	2,546	2,682	0	0	2,852
	18	3,523	2,867	0	102	4,072	2,585	0	0	2,178	2,168	0	0	2,303
	19	4,169	2,919	0	889	2,677	3,563	0	0	3,342	3,227	0	0	2,501
	20	1,867	1,727	0	3,206	2,333	2,834	0	38	2,587	2,692	0	0	2,625
	21	1,873	2,263	0	3,188	1,124	2,827	0	98	2,656	2,714	0	0	2,236
	22	2,058	2,040	0	7,805	0	2,693	0	83	2,306	2,106	0	0	2,193
	23	1,833	1,773	0	7,791	1,807	2,742	0	0	2,505	2,633	0	0	2,423
	24	1,820	1,942	0	7,201	2,981	2,884	0	67	2,711	2,654	0	0	2,601
	25	3,423	3,286	0	2,903	4,133	2,891	0	159	2,648	2,724	0	0	2,806
	26	4,006	3,224	0	2,266	5,113	2,875	0	0	2,671	2,645	0	0	1,949
	27	3,838	2,946	0	4,656	4,480	2,674	0	0	2,293	2,192	0	0	2,173
	28	2,642	3,125	0	8,600	950	2,370	0	16	2,152	2,283	0	0	2,169
	29	2,717	2,792	0	6,993	2,687	2,295	0	73	2,174	2,112	0	0	2,353
	30	3,352	3,267	0	7,938	4,163	2,443	0	83	2,114	2,111	0	0	2,309
	31	3,193	3,295	0	8,589	4,363	2,401	0	98	2,209	2,183	0	0	2,331
	Total	89,804	88,880	0	170,957	80,580	77,617	0	2,043	71,205	70,993	0	0	71,744

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Project		Natural	Project			
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries		
Apr 30	2572.54	162,948								
1	2571.78	161,995	-953	2,128	3,158	22	6,093	0	69	
2	2568.27	157,642	-4,353	0	3,123	21	7,332	0	70	
3	2567.27	156,416	-1,226	407	3,115	20	4,677	0	52	
4	2570.51	160,411	3,995	1,322	2,903	20	168	0	52	
5	2574.48	165,396	4,985	2,417	3,084	19	480	0	53	
6	2572.59	163,011	-2,385	1,839	3,224	19	7,302	0	53	
7	2570.68	160,623	-2,388	1,052	3,290	18	6,592	0	53	
8	2569.22	158,813	-1,810	3,135	2,226	18	7,114	0	52	
9	2567.20	156,330	-2,483	2,867	3,164	18	8,379	0	52	
10	2565.91	154,758	-1,572	2,743	3,194	18	7,180	0	52	
11	2568.86	158,368	3,610	3,927	3,291	18	3,510	0	52	
12	2573.80	164,535	6,167	3,998	2,772	17	561	0	53	
13	2572.14	162,446	-2,089	3,368	2,493	16	7,891	1	53	
14	2571.49	161,633	-813	3,337	3,201	16	7,127	0	53	
15	2571.42	161,545	-88	2,996	3,082	16	6,069	0	53	
16	2567.02	156,110	-5,435	2,028	3,098	15	10,391	0	53	
17	2564.59	153,159	-2,951	2,133	2,996	15	7,964	0	52	
18	2570.15	159,964	6,805	4,072	2,867	15	102	0	52	
19	2573.79	164,523	4,559	2,677	2,919	16	889	0	53	
20	2574.33	165,206	683	2,333	1,727	16	3,206	0	53	
21	2574.44	165,346	140	1,124	2,263	17	3,188	0	53	
22	2569.78	159,505	-5,841	0	2,040	17	7,805	0	53	
23	2566.23	155,147	-4,358	1,807	1,773	17	7,791	0	52	
24	2564.25	152,749	-2,398	2,981	1,942	16	7,201	0	52	
25	2567.93	157,224	4,475	4,133	3,286	16	2,903	0	52	
26	2572.75	163,212	5,988	5,113	3,224	16	2,266	1	52	
27	2574.86	165,879	2,667	4,480	2,946	16	4,656	0	52	
28	2571.18	161,246	-4,633	950	3,125	16	8,600	0	52	
29	2569.88	159,629	-1,617	2,687	2,792	13	6,993	0	52	
30	2569.38	159,010	-619	4,163	3,267	13	7,938	0	53	
31	2568.53	157,962	-1,048	4,363	3,295	12	8,589	0	53	
Total				-4,986	80,580	88,880	522	170,957	2	1,661
										-2,348

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Apr 30	1521.72	23,979								
1	1521.69	23,966	-13	6,093	0	2,128	0	3,978	0	
2	1528.95	27,197	3,231	7,332	0	0	0	4,100	-1	
3	1530.62	27,969	772	4,677	0	407	0	3,498	0	
4	1521.24	23,772	-4,197	168	0	1,322	0	3,043	0	
5	1516.60	21,815	-1,957	480	0	2,417	0	0	-20	
6	1520.02	23,249	1,434	7,302	1	1,839	1	4,028	-1	
7	1524.61	25,243	1,994	6,592	0	1,052	0	3,546	0	
8	1525.49	25,633	390	7,114	0	3,135	0	3,588	-1	
9	1529.74	27,561	1,928	8,379	0	2,867	0	3,585	1	
10	1530.42	27,876	315	7,180	0	2,743	0	4,122	0	
11	1522.57	24,348	-3,528	3,510	0	3,927	0	3,111	0	
12	1514.47	20,946	-3,402	561	0	3,998	0	0	35	
13	1517.24	22,079	1,133	7,891	0	3,368	0	3,389	-1	
14	1517.71	22,275	196	7,127	0	3,337	0	3,595	1	
15	1516.84	21,914	-361	6,069	0	2,996	0	3,433	-1	
16	1527.57	26,568	4,654	10,391	0	2,028	0	3,710	1	
17	1531.91	28,572	2,004	7,964	0	2,133	0	3,828	1	
18	1514.85	21,099	-7,473	102	0	4,072	0	3,501	-2	
19	1510.42	19,346	-1,753	889	0	2,677	0	0	35	
20	1512.64	20,214	868	3,206	0	2,333	0	0	-5	
21	1511.38	19,719	-495	3,188	0	1,124	0	2,559	0	
22	1522.85	24,470	4,751	7,805	1	0	1	3,054	0	
23	1529.70	27,543	3,073	7,791	0	1,807	0	2,912	1	
24	1533.14	29,152	1,609	7,201	0	2,981	0	2,609	-2	
25	1523.81	24,890	-4,262	2,903	0	4,133	0	3,034	2	
26	1517.16	22,046	-2,844	2,266	0	5,113	0	0	3	
27	1508.93	18,775	-3,271	4,656	0	4,480	0	3,447	0	
28	1518.06	22,421	3,646	8,600	0	950	0	4,006	2	
29	1520.97	23,656	1,235	6,993	0	2,687	0	3,069	-2	
30	1521.49	23,879	223	7,938	0	4,163	0	3,552	0	
31	1522.93	24,505	626	8,589	0	4,363	0	3,601	1	
Total				526	170,957	2	80,580	2	89,898	
									47	

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Apr 30	1486.37	263,372							
1	1487.15	264,923	1,551	0	3,978	2	2,399	69 39	
2	1488.11	266,838	1,915	0	4,100	2	1,979	69 -139	
3	1488.87	268,360	1,522	0	3,498	1	1,864	69 -44	
4	1489.42	269,464	1,104	0	3,043	1	1,910	0 -30	
5	1488.46	267,539	-1,925	0	0	1	1,951	0 25	
6	1489.53	269,686	2,147	1	4,028	1	1,857	0 -26	
7	1490.29	271,213	1,527	0	3,546	1	1,894	0 -126	
8	1491.16	272,968	1,755	0	3,588	1	1,770	0 -64	
9	1491.97	274,609	1,641	0	3,585	1	1,858	0 -87	
10	1493.07	276,846	2,237	0	4,122	1	1,937	0 51	
11	1493.76	278,254	1,408	0	3,111	1	1,761	0 57	
12	1492.91	276,520	-1,734	0	0	1	1,727	0 -8	
13	1493.67	278,070	1,550	0	3,389	1	1,882	0 42	
14	1494.29	279,339	1,269	0	3,595	1	2,069	0 -258	
15	1494.95	280,694	1,355	0	3,433	0	2,035	0 -43	
16	1495.74	282,320	1,626	0	3,710	0	1,950	0 -134	
17	1496.55	283,994	1,674	0	3,828	0	2,062	0 -92	
18	1497.31	285,569	1,575	0	3,501	0	2,003	0 77	
19	1496.41	283,704	-1,865	0	0	0	1,835	0 -30	
20	1495.57	281,970	-1,734	0	0	1	1,680	0 -55	
21	1495.99	282,836	866	0	2,559	1	1,568	65 -61	
22	1496.49	283,869	1,033	1	3,054	1	1,737	99 -187	
23	1496.78	284,469	600	0	2,912	1	2,104	99 -110	
24	1497.03	284,988	519	0	2,609	1	2,031	99 39	
25	1497.48	285,922	934	0	3,034	1	2,103	34 36	
26	1496.64	284,180	-1,742	0	0	1	1,754	0 11	
27	1497.42	285,797	1,617	0	3,447	1	1,804	0 -27	
28	1498.41	287,858	2,061	0	4,006	0	1,966	0 21	
29	1498.82	288,714	856	0	3,069	0	2,064	0 -149	
30	1499.53	290,200	1,486	0	3,552	0	2,032	0 -34	
31	1500.27	291,754	1,554	0	3,601	0	1,951	0 -96	
Total		28,382		2	89,898	24	59,537	603 -1,402	

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Entitle-ment	Rec.	Local	Transfer	Other		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		89,804							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	2	2	2	2	2		
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07		88,880							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	2	35	35	35	35	35		
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(80,580 AF pumpback)	170,957							
29J	W4	Elderberry Forebay				11,166	44,589	1,638	1,955	154		
		Forebay Dam	28.12									
		Castaic Lake		Calif. State Park Castaic Lake Recreation	35							
30 1/	W5	Castaic Dam	31.47			11,166	44,589	1,638	1,955	154		
		Castaic Lake Outlet	31.55	MWD - 78"	11,166							
				MWD - 132"	44,589							
				Castaic Lake WA - T1	1,638							
				Castaic Lake WA	1,955							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	603							
				Reach 30 Subtotal:	59,537	59,502	35	0	0	0		
	W6	Castaic Lagoon		Recreation to Lagoon	582	582						
		Castaic Lagoon Outlet	31.87		21							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project		Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.					
Apr 30	3352.96	72,993											
1	3352.60	72,647	-346	1,824	0	2	3	0	2,173	0	1	5	0
2	3352.08	72,149	-498	1,755	0	2	3	0	2,280	0	0	28	0
3	3351.63	71,720	-429	1,842	0	1	4	0	2,225	0	1	-42	0
4	3351.08	71,197	-523	1,584	0	1	5	0	2,148	0	0	45	0
5	3351.64	71,730	533	2,510	0	1	4	0	1,954	0	1	-19	0
6	3351.37	71,473	-257	1,852	0	1	5	0	2,134	0	0	29	0
7	3351.62	71,710	237	2,367	0	1	5	1	2,118	0	0	-7	0
8	3350.37	70,525	-1,185	928	0	1	5	0	2,120	0	0	11	2
9	3350.11	70,280	-245	2,112	0	1	5	0	2,325	0	1	-27	2
10	3349.91	70,092	-188	2,109	0	1	5	0	2,320	0	0	27	2
11	3349.83	70,016	-76	2,108	0	1	4	1	2,126	0	1	-53	2
12	3351.01	71,131	1,115	3,469	0	1	5	0	2,374	0	0	24	2
13	3351.29	71,397	266	2,624	0	1	5	0	2,335	0	1	-18	2
14	3351.42	71,520	123	2,484	0	1	5	0	2,377	0	0	20	2
15	3350.95	71,074	-446	1,904	0	1	6	0	2,314	0	0	-31	2
16	3350.73	70,865	-209	2,395	0	1	7	1	2,597	0	0	0	2
17	3350.57	70,714	-151	2,682	0	1	6	0	2,852	0	1	25	2
18	3350.40	70,554	-160	2,168	0	1	7	0	2,303	0	0	-19	2
19	3351.14	71,254	700	3,227	0	1	7	1	2,501	0	1	-18	2
20	3351.23	71,340	86	2,692	0	1	6	0	2,625	0	0	24	2
21	3351.70	71,787	447	2,714	0	1	7	0	2,236	0	1	-24	2
22	3351.63	71,720	-67	2,106	0	1	2	0	2,193	0	0	21	2
23	3351.87	71,949	229	2,633	0	1	6	0	2,423	0	0	24	2
24	3351.94	72,016	67	2,654	0	1	7	1	2,601	0	0	21	2
25	3351.81	71,892	-124	2,724	0	1	7	1	2,806	0	1	-34	1
26	3352.54	72,590	698	2,645	0	0	6	0	1,949	0	0	8	1
27	3352.51	72,561	-29	2,192	0	0	7	1	2,173	0	0	-40	1
28	3352.54	72,590	29	2,283	0	0	7	0	2,169	0	1	-77	0
29	3352.33	72,389	-201	2,112	0	0	6	1	2,353	0	0	47	0
30	3352.13	72,197	-192	2,111	0	0	7	0	2,309	0	0	13	0
31	3351.96	72,035	-162	2,183	0	0	7	0	2,331	0	1	-6	0
Total				-958	70,993	0	27	171	8	71,744	0	12	-43
												37	

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

May 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Apr 30	1583.58	116,865				
1	1583.49	116,665	-200		154	
2	1583.38	116,421	-244		159	
3	1583.37	116,398	-23		112	
4	1583.36	116,376	-22		59	
5	1583.36	116,376	0		59	
6	1583.28	116,199	-177		60	
7	1583.22	116,066	-133		59	
8	1583.26	116,154	88		60	
9	1583.20	116,021	-133		67	
10	1583.19	115,999	-22		69	
11	1583.11	115,822	-177		69	
12	1583.11	115,822	0		82	
13	1583.11	115,822	0		49	
14	1583.09	115,778	-44		11	
15	1583.07	115,734	-44		11	
16	1583.05	115,689	-45		11	
17	1583.11	115,822	133		11	
18	1583.10	115,800	-22		11	
19	1583.10	115,800	0		11	
20	1583.04	115,667	-133		11	
21	1583.06	115,711	44		89	
22	1583.09	115,778	67		11	
23	1583.06	115,711	-67		11	
24	1583.07	115,734	23		11	
25	1583.05	115,689	-45		11	
26	1583.04	115,667	-22		11	
27	1583.05	115,689	22		11	
28	1583.10	115,800	111		12	
29	1583.09	115,778	-22		11	
30	1583.12	115,844	66		11	
31	1583.10	115,800	-44		11	
Total			-1,065	1,528	1,335	-1,258

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Transfer 1/	Purchase Pool B	Transfer Local Out		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		169,524							
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 2,043 AF flow down Cottonwood Chute)	77,617	29	1,511	64	0			
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
		Check No. 44	314.81									
	45		314.93	AVEK 235th Street West	29							
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	1,575							
		Check No. 46	323.84									
				Reach 19 Total:	1,604							
20A	47	Check No. 47	326.77			103	3,127	104	0			
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	103							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
20B	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0	1,873	155	34	0			
				Antelope Valley-East Kern WA	3,127							
			339.68	Antelope Valley-East Kern WA	104							
	Check No. 50		341.51									
	51	Check No. 51	342.07									
21	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use	60	457	60	0			
		Check No. 52	343.74									
	53		346.98	PWD Palmdale	1,873							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	155							
22A	Check No. 53		348.17									
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.	0							
	57	Check No. 57	356.93			34	457	60	0			
	58		357.60	Antelope Valley-East Kern WA	34							
			357.72	Antelope Valley-East Kern WA 96th Street East	60							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	457							

1/ AVEK transferred this water to Mojave Water Agency.

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

May 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recreation	Ex-change	Transfer 1/	Local		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		71,205	360						
	59	Check No. 59	366.09									
	60	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency Mojave River	0							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10	Mojave Water Agency Morongo 24" and 42"	360							
				Mojave Water Agency Hesperia	0							
23	Check No. 66	403.41								37		
24	Mojave Siphon	405.48		Las Flores Ranch	37	170	8	5,000	5,000	37		
	Mojave Siphon Powerplant	405.65			70,993							
	Silverwood Lake	407.65		Crestline Lake Arrowhead Water Agency	170							
				Calif. State Park Silverwood Agency (Rec.)	8							
	San Bernardino Tunnel	411.46			71,744							
25				San Gorgonio Pass Water Agency	0							
26A	Devil Canyon Powerplant	412.73			71,744	23,301	2,524	3,015	1,532	5,000		
	Devil Canyon Afterbay Control Structures	412.88		MWD-SC Rialto	28,301							
				Desert Water Agency (MWD Wheeling Exchange)	2,524							
				San Gabriel Valley Water District	3,015							
				Coachella Valley WD (MWD Wheeling Exchange)	1,532							
				San Bernardino Valley MWD 24" and 72"	1,365							
				San Bernardino Valley MWD 48"	249							
				MWD (SBVMWD Exchange)	0							
28G	Santa Ana Valley Pipeline	425.46					8,003	25,745	287	5,000		
28H		433.06		MWD-SC Box Springs	8,003							
		440.05		MWD-SC Perris Bypass Pipeline	25,745							
28J	Lake Perris	442.00		MWD-SC 18"	287							
		443.44		MWD-SC 54"	38		38	969	41	5,000		
				MWD-SC 78"	969							
				Calif. State Park								
				Lake Perris Recreation	41							
				MWD Total:	124,946	119,946	0	0	0	0		

1/ Entitlement water transferred to MWD from San Bernardino WD.

Table 32. Water Quality At Selected SWP Locations

May 2002

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	43	96	79	81	87	89	87	87	88
Antimony	mg/l	NR	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.05	0.16	0.16	0.22	0.24	0.24	0.25	0.24
Calcium	mg/l	8	16	21	24	23	23	24	24	23
Carbon - Dissolved Organic	mg/l as C	NR	2.4	3.8	3.2	3.3	3.3	2.9	2.8	3.2
Carbon - Total Organic	mg/l as C	NR	4.0	3.2	3.1	3.4	3.4	2.9	2.8	3.3
Chloride	mg/l	<1	18	47	54	80	81	76	74	63
Chromium	mg/l	0.002	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.003
Copper	mg/l	<0.001	0.008	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Fluoride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l as CaCO ₃	36	89	102	109	115	119	118	113	111
Iron	mg/l	<0.005	<0.005	<0.005	0.008	0.015	0.007	<0.005	0.005	0.012
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	12	12	12	14	15	14	13	13
Manganese	mg/l	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.01	0.68	NR	NR	0.83	NR	0.76	0.84
Phosphorus-Ortho	mg/l as P	<0.01	0.05	0.09	NR	NR	0.08	NR	0.06	0.07
Phosphorus-Total	mg/l	0.02	0.14	0.13	NR	NR	0.08	NR	0.08	0.08
Selenium	mg/l	NR	<0.001	<0.001	NR	NR	NR	0.001	NR	NR
Sodium	mg/l	4	22	38	41	54	56	54	53	47
Specific Conductance	µS/cm	89	294	401	441	527	532	511	501	478
Sulfate	mg/l	2	24	42	50	44	44	44	44	47
Total Dissolved Solids	mg/l	56	158	222	246	293	288	316	277	265
Turbidity	NTU	4	67	17	11	3	4	5	6	4
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

May 2002

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millSiemens/cm								Cl in mg/l		
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	Contra Costa Canal Intake
	Mean Daily	Monthly Average	md	md				md	14dm	md	14dm				
	Hi	Half													md
1	2.94	0.88	13,170	13,170	9,611	0.42	1.82	0.23	0.21	0.23	0.22	0.30	0.58	0.38	34
2	2.77	0.97	13,117	13,144	8,959	0.40	1.77	0.23	0.21	0.23	0.22	0.30	0.59	0.40	33
3	2.34	0.86	12,217	12,835	8,986	0.38	1.43	0.22	0.21	0.23	0.22	0.30	0.60	0.40	36
4	1.77	0.60	12,244	12,687	8,393	0.34	1.10	0.21	0.21	0.23	0.22	0.30	0.61	0.42	38
5	1.90	0.57	11,579	12,465	7,898	0.33	1.08	0.21	0.21	0.23	0.22	0.30	0.60	0.42	41
6	1.88	0.51	11,116	12,240	7,384	0.33	1.22	0.22	0.21	0.23	0.22	0.30	0.60	0.41	44
7	2.13	0.58	10,493	11,991	7,840	0.33	1.24	0.21	0.22	0.23	0.22	0.30	0.59	0.41	41
8	2.14	0.54	11,116	11,882	7,746	0.33	1.15	0.21	0.22	0.23	0.22	0.30	0.58	0.41	37
9	2.26	0.58	10,897	11,772	7,836	0.34	1.61	0.20	0.22	0.24	0.23	0.30	0.51	0.43	39
10	2.52	0.63	10,818	11,677	7,696	0.37	1.79	0.21	0.22	0.24	0.23	0.30	0.50	0.43	45
11	2.47	0.61	10,553	11,575	7,544	0.35	1.74	0.20	0.21	0.24	0.23	0.30	0.52	0.42	53
12	2.65	0.69	10,444	11,480	7,754	0.37	2.01	0.21	0.21	0.24	0.23	0.30	0.50	0.41	55
13	2.78	0.84	10,798	11,428	7,574	0.45	2.34	0.22	0.21	0.24	0.23	0.30	0.49	0.41	56
14	2.95	1.00	10,532	11,364	7,857	0.47	2.48	0.24	0.22	0.24	0.23	0.30	0.47	0.42	57
15	3.21	1.18	10,678	11,318	8,131	0.55	3.04	0.26	0.22	0.25	0.24	0.30	0.43	0.42	56
16	3.18	1.20	10,647	11,276	8,348	0.58	2.82	0.28	0.22	0.25	0.24	0.40	0.40	0.42	57
17	3.06	1.21	10,693	11,242	8,653	0.55	2.62	0.28	0.23	0.25	0.24	0.43	0.38	0.42	57
18	2.96	1.24	10,906	11,223	9,561	0.58	2.82	0.27	0.23	0.25	0.24	0.45	0.36	0.43	56
19	2.50	1.06	11,834	11,255	10,746	0.52	2.17	0.23	0.23	0.24	0.24	0.44	0.41	0.42	53
20	2.39	1.11	13,342	11,360	12,108	0.52	2.39	0.23	0.23	0.24	0.24	0.45	0.51	0.44	55
21	2.39	0.75	18,587	11,704	16,300	0.44	1.75	0.21	0.23	0.24	0.24	0.45	0.62	0.44	55
22	2.37	0.62	23,304	12,231	17,385	0.36	1.43	0.19	0.23	0.24	0.24	0.30	0.58	0.46	56
23	2.63	0.73	23,810	12,735	17,478	0.36	1.18	0.19	0.23	0.24	0.24	0.30	0.57	0.46	55
24	2.95	0.87	23,593	13,187	17,028	0.36	1.17	0.18	0.23	0.24	0.24	0.30	0.57	0.43	52
25	3.26	1.16	22,794	13,571	15,430	0.37	1.37	0.19	0.23	0.24	0.24	0.30	0.57	0.45	50
26	3.56	1.32	17,289	13,714	13,137	0.37	1.61	0.20	0.23	0.24	0.24	0.30	0.55	0.51	51
27	3.63	1.34	14,931	13,759	11,882	0.35	1.50	0.21	0.23	0.24	0.24	0.30	0.57	0.56	50
28	3.51	1.32	13,929	13,765	9,157	0.37	1.45	0.22	0.22	0.24	0.24	0.30	0.57	0.58	48
29	3.41	1.27	12,784	13,732	11,218	0.36	1.26	0.22	0.22	0.24	0.24	0.30	0.56	0.57	46
30	3.20	1.27	12,481	13,690	10,363	0.36	1.18	0.22	0.22	0.23	0.24	0.30	0.54	0.57	44
31	3.12	1.48	11,444	13,617	9,614	0.39	1.33	0.22	0.21	0.24	0.24	0.30	0.51	0.57	44

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

May 2002

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.99
California Aqueduct At Banks Pumping Plant	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA) Simazine	0.98 0.02
O'Niell Forebay Outlet Check 13	March 20, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.97
Delta Mendota Canal At McCabe Road	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA) Diazinon Simazine	1.06 0.01 0.03
California Aqueduct Near Kettleman City (Check 21)	March 19, 2002	2,4-Dichlorophenylacetic acid (DCAA) Diazinon Simazine	1 0.01 0.02
California Aqueduct At Near Highway 119 (Check 21)	March 19, 2002	Simazine Diazinon 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.01 0.99
California Aqueduct At Tehachapi Afterbay (Check 41)	March 21, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.94
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	March 20, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.91

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)	May 2002							
Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	7,794,720	0	17,563	21,805	339,264	339,264	362,930	17,559
2	6,439,968	0	27,636	22,708	362,112	362,112	375,015	17,685
3	8,159,328	0	32,137	24,220	361,920	361,920	373,460	17,735
4	3,303,936	0	31,213	21,840	311,616	311,616	356,355	17,518
5	1,918,368	0	33,502	23,492	314,880	314,880	367,730	17,336
6	7,828,704	0	29,260	20,580	334,080	334,080	364,650	17,393
7	6,265,728	0	28,651	19,621	334,464	334,464	377,165	17,473
8	6,757,632	0	31,864	22,925	337,344	337,344	373,145	17,549
9	6,497,856	0	32,109	23,751	337,920	337,920	408,865	17,589
10	6,508,800	0	33,964	23,947	346,560	346,560	477,495	17,576
11	2,805,696	22,176	36,414	25,620	336,576	336,576	472,555	17,559
12	462,240	5,436,288	36,638	27,153	312,576	312,576	482,485	17,505
13	8,097,984	288	37,233	25,935	408,000	408,000	501,700	15,776
14	8,400,096	0	36,890	27,734	381,888	381,888	505,915	15,864
15	7,173,504	0	32,179	22,071	560,640	560,640	527,200	17,268
16	7,314,912	0	33,404	22,358	752,448	752,448	523,145	14,879
17	7,312,896	288	37,786	29,239	291,456	291,456	512,445	14,132
18	2,540,448	27,072	32,452	22,463	190,272	190,272	523,305	14,304
19	1,671,840	3,051,360	32,389	24,787	192,576	192,576	522,925	15,283
20	5,652,288	0	31,248	24,843	193,152	193,152	523,685	14,301
21	4,963,104	0	26,775	22,813	245,184	245,184	517,665	8,318
22	4,322,016	0	25,641	21,889	220,800	220,800	517,270	6,243
23	4,027,968	0	26,754	24,570	184,896	184,896	501,930	5,453
24	4,354,848	0	26,558	21,049	199,104	199,104	512,485	4,946
25	1,965,600	0	30,464	22,575	703,680	703,680	502,935	6,095
26	322,560	3,674,592	32,263	22,610	484,800	484,800	497,475	6,648
27	1,349,568	0	28,931	22,834	534,336	534,336	502,985	7,073
28	3,908,736	0	29,211	22,155	364,224	364,224	524,905	7,554
29	5,180,256	0	28,959	22,638	401,664	401,664	522,635	6,802
30	6,342,912	1,139,328	34,678	30,275	376,128	376,128	522,060	6,222
31	5,366,592	1,342,368	42,889	31,752	372,096	372,096	522,105	6,199
Total	155,011,104	14,693,760	977,655	742,252	11,086,656	11,086,656	14,576,620	403,837

Table 36. San Luis Field Division Energy Data

(in kWh)

May 2002

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,066,032	625,032	1,310,400	635,400	8,928	8,928
2	1,275,984	834,984	2,747,808	1,127,808	11,232	11,232
3	1,445,040	1,004,040	2,709,216	819,216	8,928	8,928
4	1,193,904	752,904	3,190,176	1,570,176	8,928	8,928
5	1,496,304	1,064,304	2,292,768	2,292,768	10,944	10,944
6	1,196,352	755,352	2,952,576	1,107,576	8,640	8,640
7	1,392,624	951,624	3,359,232	1,874,232	8,064	8,064
8	1,045,584	604,584	3,535,488	2,050,488	7,776	7,776
9	1,245,600	858,600	2,338,848	886,848	9,792	9,792
10	1,567,152	1,180,152	2,892,096	1,660,096	9,792	9,792
11	1,408,176	1,021,176	3,139,488	1,555,488	8,640	8,640
12	1,786,176	1,402,176	3,110,112	2,802,112	8,640	8,640
13	1,288,224	901,224	3,935,232	1,295,232	4,320	4,320
14	1,478,880	1,091,880	3,577,248	1,729,248	9,216	9,216
15	1,537,776	1,150,776	3,819,456	2,279,456	8,640	8,640
16	1,601,280	1,136,280	3,630,528	1,810,528	7,200	7,200
17	1,629,360	1,164,360	4,344,192	2,407,192	6,624	6,624
18	1,677,744	1,212,744	4,150,080	2,200,080	6,912	6,912
19	1,767,744	1,311,744	3,313,152	1,543,152	5,472	5,472
20	1,418,112	953,112	4,176,288	2,406,288	864	864
21	1,332,576	867,576	3,578,688	1,808,688	6,336	6,336
22	1,506,816	1,041,816	3,553,632	1,861,632	7,776	7,776
23	1,488,528	1,023,528	3,525,120	1,833,120	7,200	7,200
24	1,484,208	1,019,208	3,496,032	1,546,032	7,776	7,776
25	1,739,808	1,274,808	2,875,680	1,185,680	8,064	8,064
26	1,884,816	1,428,816	3,401,280	2,216,280	6,048	6,048
27	1,802,880	1,346,880	3,250,080	2,065,080	6,336	6,336
28	1,810,800	1,345,800	3,775,392	1,825,392	6,336	6,336
29	1,851,552	1,386,552	4,505,184	2,971,184	3,456	3,456
30	2,156,688	1,691,688	4,556,736	2,891,736	0	0
31	2,357,280	1,763,280	4,385,952	2,417,952	0	0
Total	47,934,000	34,167,000	105,428,160	56,676,160	218,880	218,880

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

May 2002

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrismen	Edmonston
1	16,902	47,584	76,032	73,278	75,024	1,206,288	1,370,520	3,055,104	11,098,080
2	19,044	49,528	75,654	72,720	75,258	1,334,808	1,425,960	3,142,080	11,512,800
3	18,136	49,784	77,832	75,528	77,940	1,333,008	1,409,400	3,164,832	11,618,640
4	17,316	47,112	89,856	86,760	87,390	1,342,296	1,488,744	3,252,384	11,807,280
5	12,652	35,512	77,112	74,790	76,716	1,623,240	1,768,968	3,933,216	14,531,040
6	19,776	52,688	88,560	86,436	86,454	1,419,408	1,582,056	3,483,360	12,402,720
7	23,098	65,328	79,578	77,112	78,264	1,420,272	1,516,752	3,337,056	12,231,360
8	25,850	71,304	91,782	90,000	90,180	699,480	694,656	1,450,080	5,166,720
9	28,500	75,528	88,560	86,382	86,706	1,473,264	1,590,840	3,483,936	12,589,200
10	22,550	63,536	81,594	79,326	79,092	1,467,864	1,578,240	3,421,152	12,573,360
11	28,608	80,824	93,222	92,232	92,466	1,450,152	1,553,184	3,438,432	12,702,240
12	26,862	73,928	87,498	85,500	86,328	1,856,304	2,011,320	4,442,976	16,331,040
13	20,298	54,144	77,706	74,592	77,274	1,189,728	1,337,760	2,961,216	10,673,280
14	24,636	67,384	81,288	79,272	79,686	1,450,584	1,481,544	3,251,808	11,742,480
15	24,982	68,040	80,208	77,778	80,028	1,415,376	1,500,768	3,237,120	11,745,360
16	34,480	95,536	104,562	102,672	102,654	1,478,592	1,549,872	3,379,680	12,278,880
17	28,364	77,176	94,104	89,658	92,088	1,482,552	1,610,568	3,445,056	12,591,360
18	49,400	134,624	77,112	74,736	75,204	1,660,464	1,709,136	3,739,104	13,839,840
19	41,326	113,000	85,662	83,592	85,122	1,914,264	2,138,328	4,734,144	17,413,200
20	31,200	86,384	68,328	66,906	68,382	1,314,648	1,382,040	2,971,008	10,834,560
21	35,276	97,040	103,302	101,682	100,908	1,334,808	1,368,936	2,985,120	10,845,360
22	31,292	85,416	87,660	86,076	85,878	1,312,920	1,416,312	3,029,760	10,838,880
23	34,446	91,160	81,792	80,676	80,136	1,235,880	1,306,296	2,830,752	10,350,720
24	33,432	91,176	89,424	88,596	88,146	1,371,672	1,366,272	2,956,896	10,838,160
25	37,378	102,704	89,334	87,408	87,228	1,654,272	1,812,744	3,956,544	14,586,480
26	37,540	105,896	108,396	105,066	108,126	1,731,384	1,882,584	4,171,680	15,489,360
27	28,966	76,960	71,100	67,986	72,882	1,670,976	1,819,368	3,973,536	14,627,520
28	34,594	93,224	71,046	68,076	70,524	1,439,424	1,475,568	3,162,816	11,424,960
29	32,560	88,424	86,670	85,068	83,934	1,422,576	1,467,576	3,160,800	11,419,920
30	32,218	88,552	88,542	86,652	86,976	1,610,280	1,688,976	3,672,576	13,300,560
31	36,212	95,976	62,496	59,058	62,244	1,587,096	1,626,480	3,501,792	12,883,680
Total	887,894	2,425,472	2,616,012	2,545,614	2,579,238	44,903,880	47,931,768	104,726,016	382,289,040

Table 38. Southern Field Division Energy Data

(in kWh)

May 2002

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	777,056	1,742,184	2,880,000	216,188	1,096,104	2,691,168	137,886
2	784,896	1,742,760	2,880,000	248,948	1,263,744	2,789,760	139,041
3	884,240	1,744,200	2,880,000	217,280	1,301,700	2,746,176	147,336
4	825,776	1,646,280	2,880,000	249,004	1,035,948	2,646,624	128,331
5	1,010,912	1,744,776	2,880,000	317,016	1,651,272	2,418,720	187,950
6	822,752	1,795,248	2,880,000	271,964	1,266,420	2,623,776	138,453
7	854,952	1,816,632	2,880,000	248,668	1,402,236	2,593,632	185,934
8	311,248	1,286,640	2,880,000	130,116	738,960	2,610,432	71,946
9	783,608	1,762,416	2,880,000	295,260	1,456,920	2,858,784	165,165
10	829,808	1,761,264	2,880,000	269,612	1,454,832	2,853,504	165,291
11	845,208	1,801,584	2,880,000	270,396	1,438,740	2,628,384	165,879
12	666,960	1,517,184	2,880,000	424,816	2,483,928	2,926,272	281,505
13	695,296	1,386,864	2,880,000	240,436	1,603,920	2,852,256	203,469
14	761,992	1,770,768	2,880,000	280,252	1,466,928	2,901,120	185,619
15	747,992	1,720,368	2,880,000	288,652	1,307,328	2,817,312	146,454
16	717,024	1,721,232	2,880,000	326,060	1,691,208	3,167,520	190,554
17	715,344	1,669,032	2,880,000	337,232	1,691,784	3,450,240	211,932
18	926,184	1,604,088	2,880,000	304,976	1,450,848	2,801,376	172,662
19	1,097,768	1,658,376	2,880,000	414,484	2,229,480	3,051,936	260,400
20	491,904	1,039,176	1,872,000	329,336	1,722,024	3,197,376	211,659
21	492,744	1,327,320	1,872,000	329,448	1,770,312	2,742,528	220,731
22	542,136	1,214,928	1,872,000	313,376	1,535,448	2,690,784	161,868
23	481,432	1,051,488	1,872,000	318,416	1,664,856	2,927,904	212,037
24	479,752	1,185,552	1,872,000	333,956	1,803,084	3,179,136	209,559
25	898,408	1,798,704	2,880,000	339,808	1,758,288	3,414,432	214,074
26	1,053,640	1,779,120	2,880,000	340,536	1,767,324	2,382,912	200,928
27	1,010,072	1,669,968	2,880,000	321,720	1,514,436	2,662,368	169,323
28	696,640	1,740,096	2,880,000	277,368	1,433,472	2,660,448	171,255
29	717,472	1,573,200	2,880,000	266,952	1,449,120	2,877,312	160,566
30	881,384	1,795,752	2,880,000	282,128	1,401,192	2,791,296	159,474
31	839,216	1,807,488	2,880,000	277,088	1,462,296	2,826,912	163,254
Total	23,643,816	49,874,688	84,240,000	9,081,492	47,314,152	87,782,400	5,540,535